

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

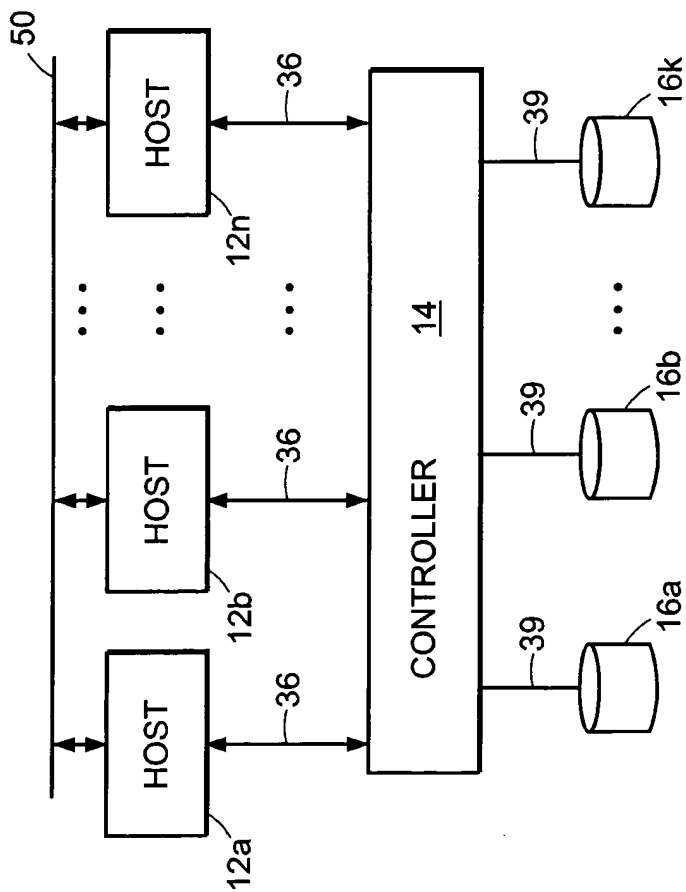


FIG. 1



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

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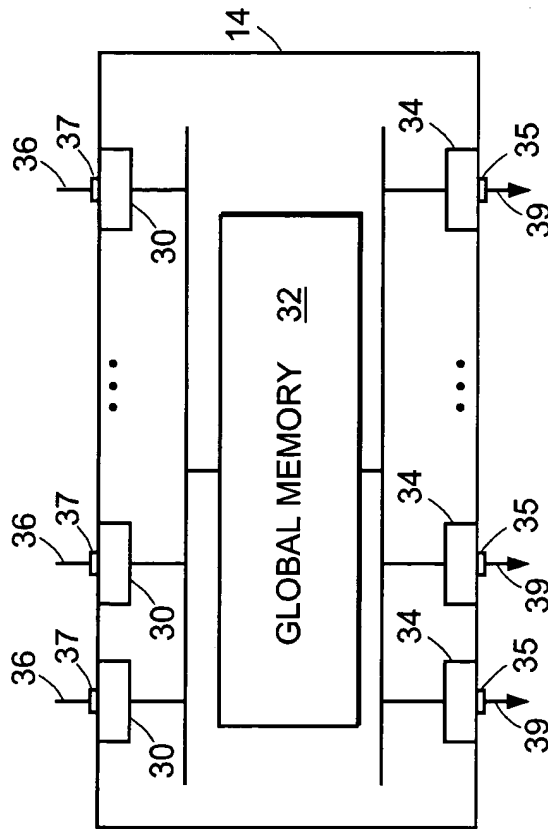


FIG. 2



APPROVED	O.G. FIG.	
	CLASS SUBCLASS	
BY		
DRAFTSMAN		

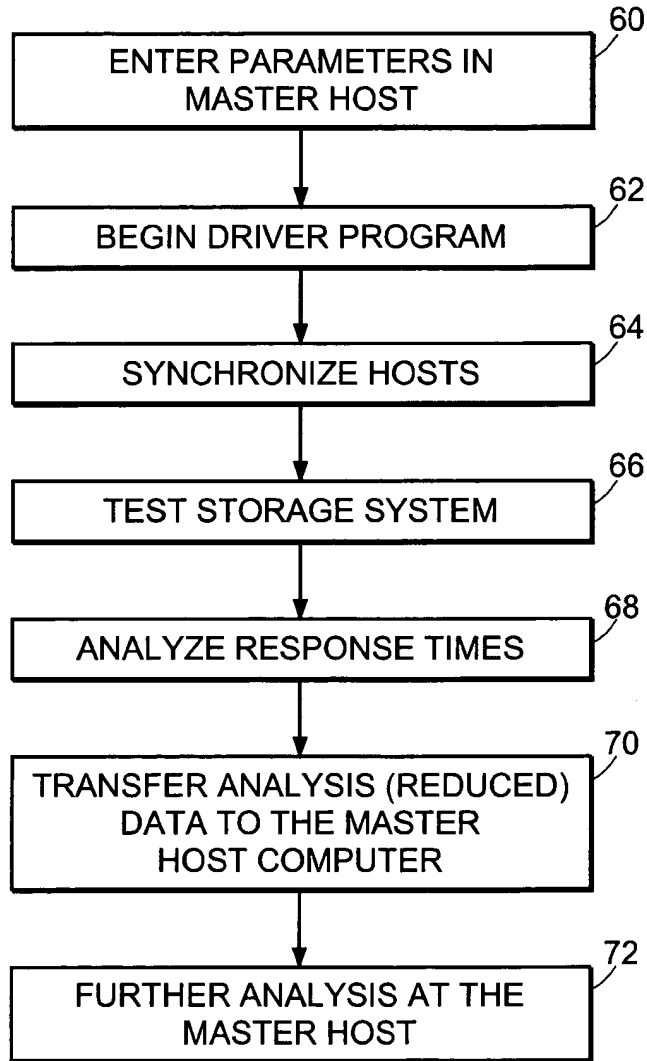


FIG. 3

FIG. 4A
FIG. 4B

FIG. 4

REQUIRED	NUMBER OF LOGICAL DISKS
	NUMBER OF "CHILD" PROCESSES TO START
	NUMBER OF CAPTURE RESPONSE TIMES
	NUMBER OF RESPONSE TIMES
	BUFFER SIZE
	OFFSET SIZE
	MAXIMUM RANGE
	TIME OF TEST
	READ/WRITE SIZE
	READ/WRITE MIX

FIG. 4A



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

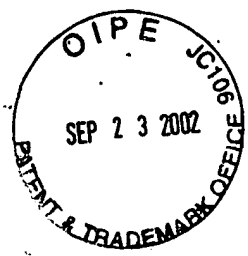


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APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

OPTIONAL	ID OF DEVICES BEING TESTED
	ID OF MASTER & CLIENT HOSTS
	I/O TYPE (SEQUENTIAL OR RANDOM)
	NUMBER OF I/O OPERATIONS PERFORMED TO CORRECT OFFSET
	DISPLACEMENT FROM OFFSET
	DELAY BETWEEN COMMANDS
	INITIAL BYTE OFFSET
	NUMBER OF SEEKS FOR RANDOM I/O
	DATA REDUCTION METHOD
	ICDA PERCENT HIT RATE

FIG. 4B



O.G. FIG.	CLASS/SUBCLASS	
	APPROVED BY	DRAFTSMAN

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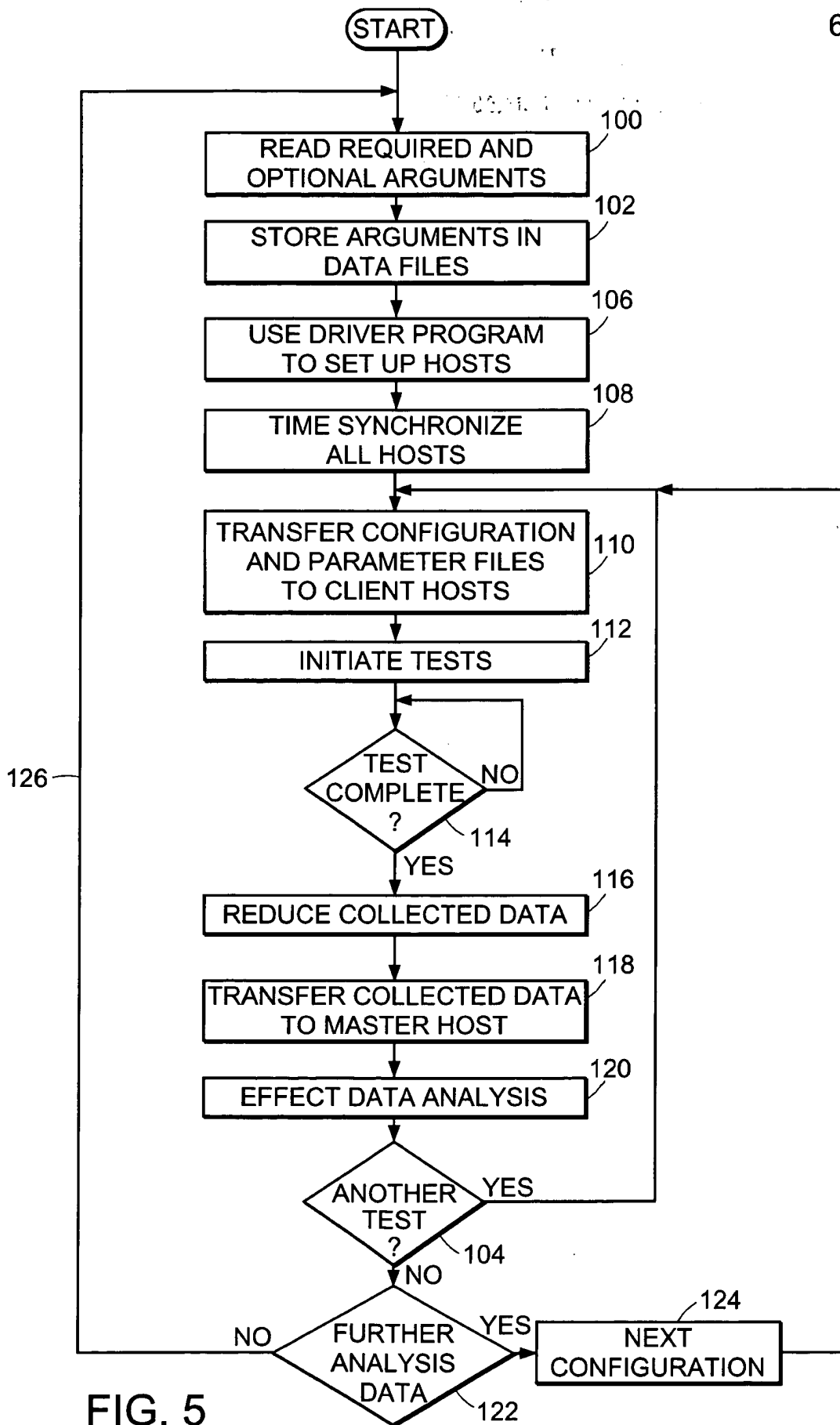


FIG. 5

APPROVED	O.G. FIG.	
BY	CLASS	SUBCL
DRAFTSMAN		

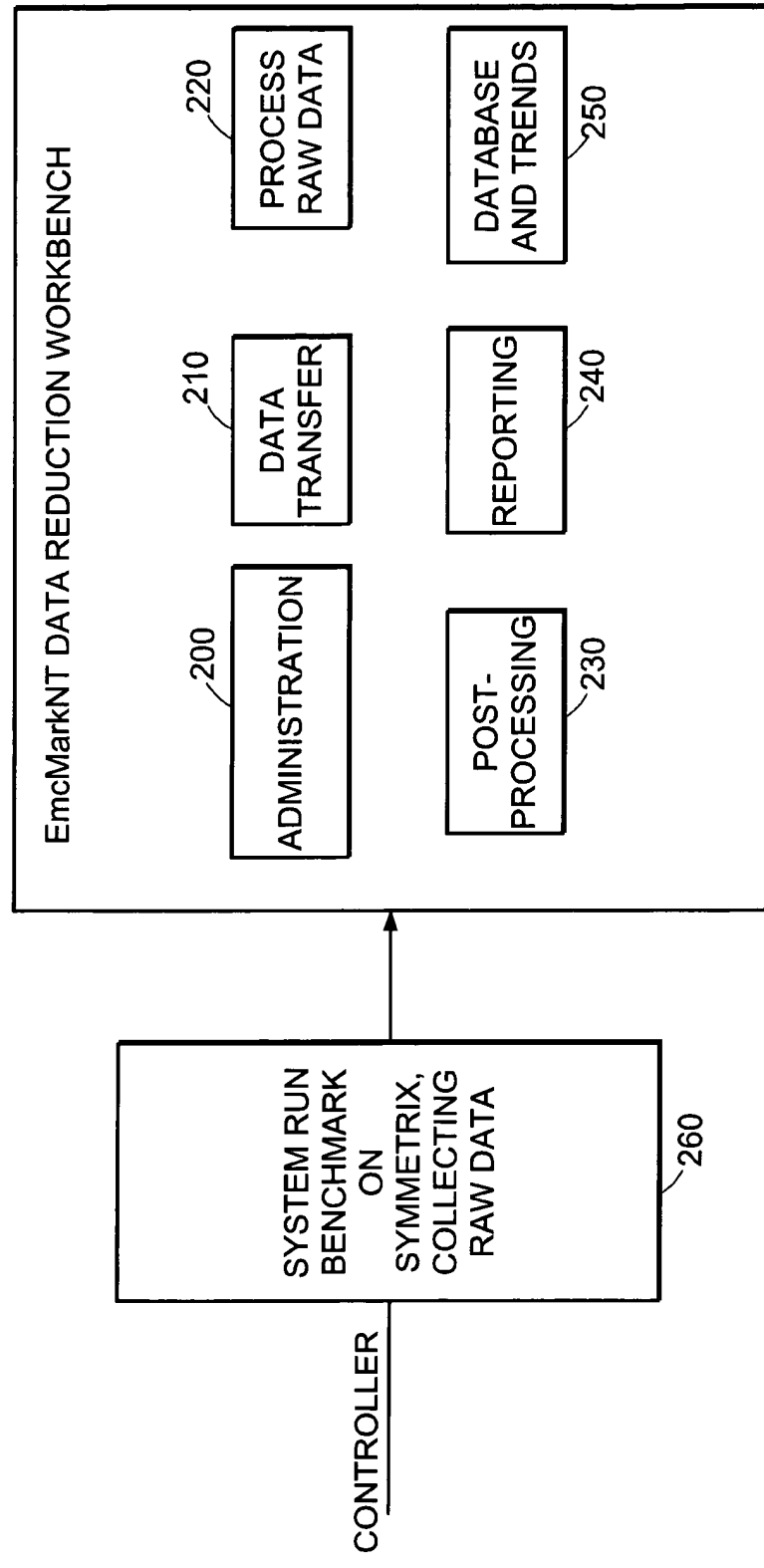
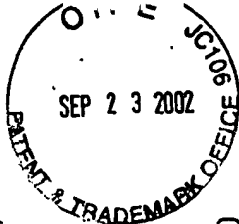


FIG. 6

APPROVED	O.G. FIG.
BY	CLASS/SUBCL.
DRAFTSMAN	



EmcMarkNT DATA REDUCTION WORKBENCH FLOW

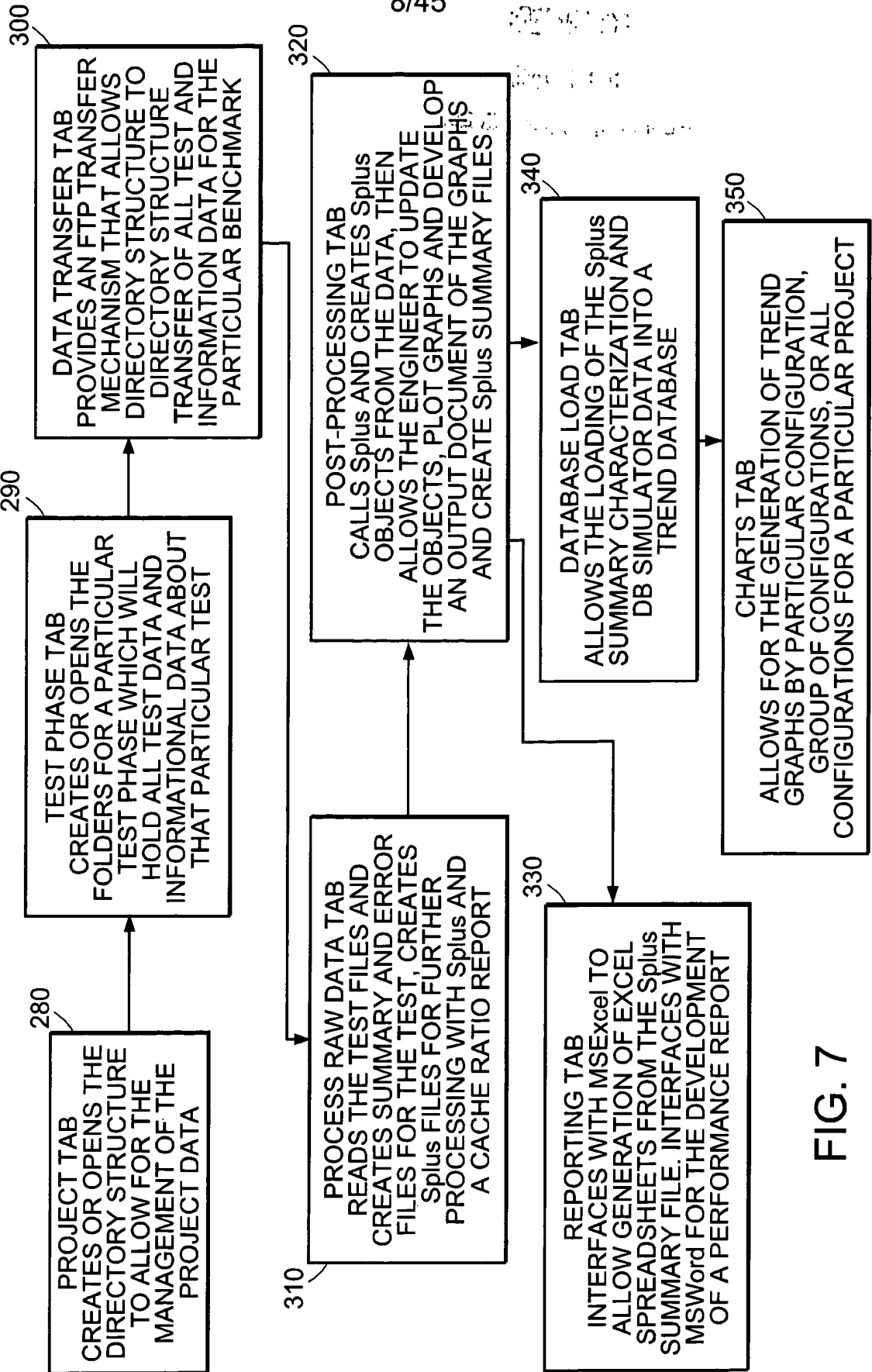


FIG. 7



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

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FIG. 8A-1	FIG. 8A-2
FIG. 8A-3	FIG. 8A-4

FIG. 8A

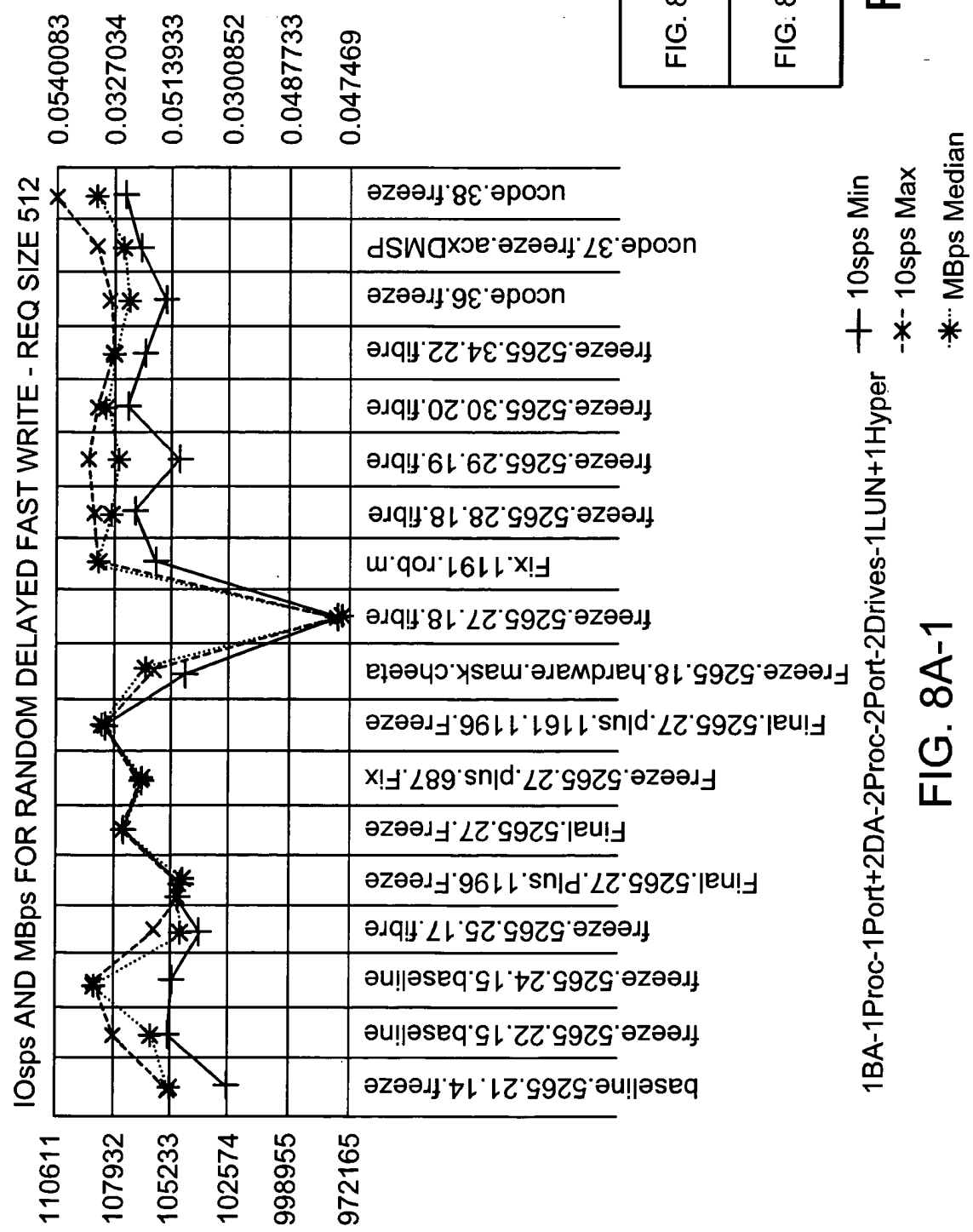


FIG. 8A-1

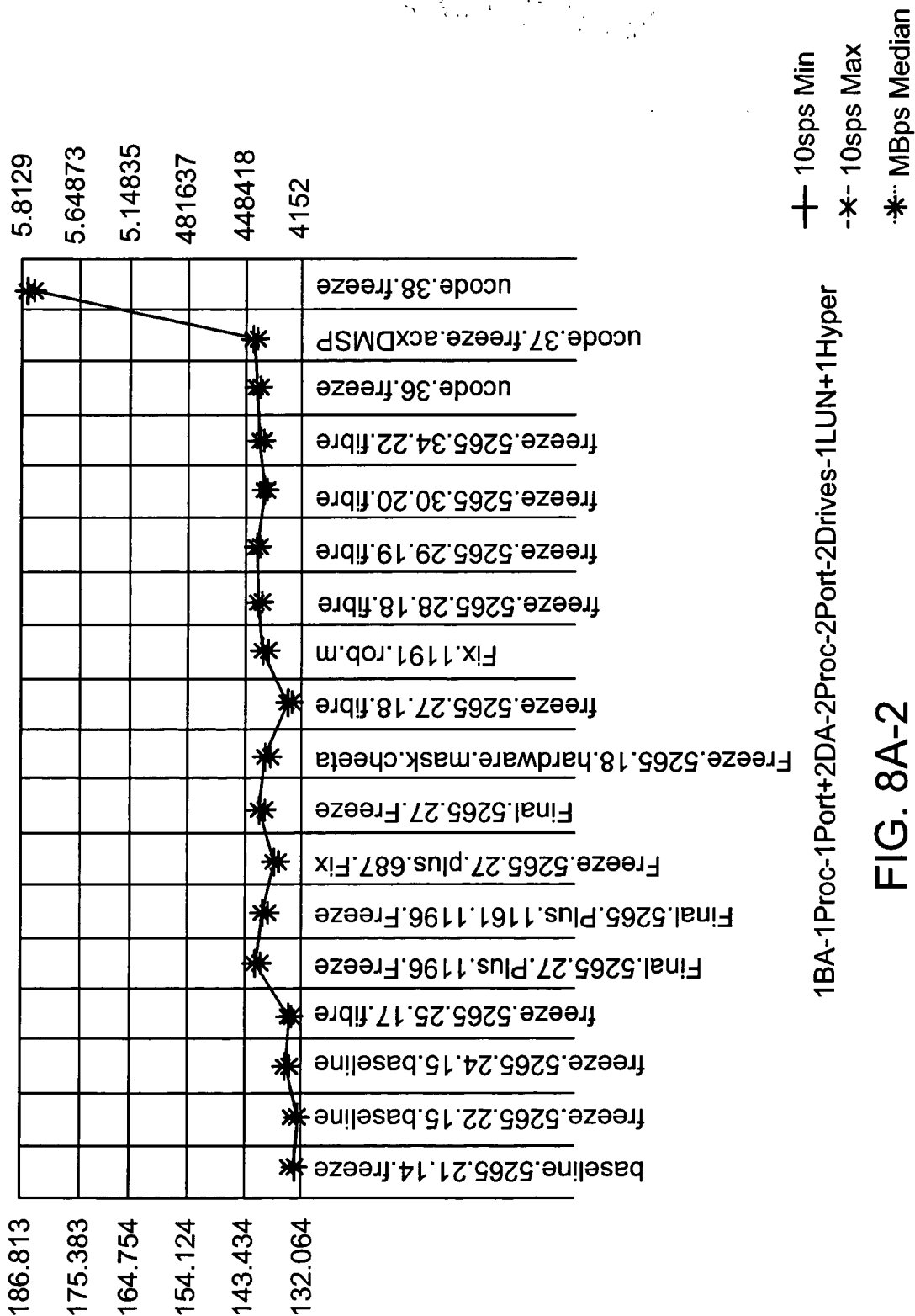


APPROVED	O.G. FIG.
BY	CLASS/SUBCL
DRAFTSMAN	

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TECHNOLOGY

IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 32768



1BA-1Proc-1Port+2DA-2Proc-2Port-2Drives-1LUN+1Hyper

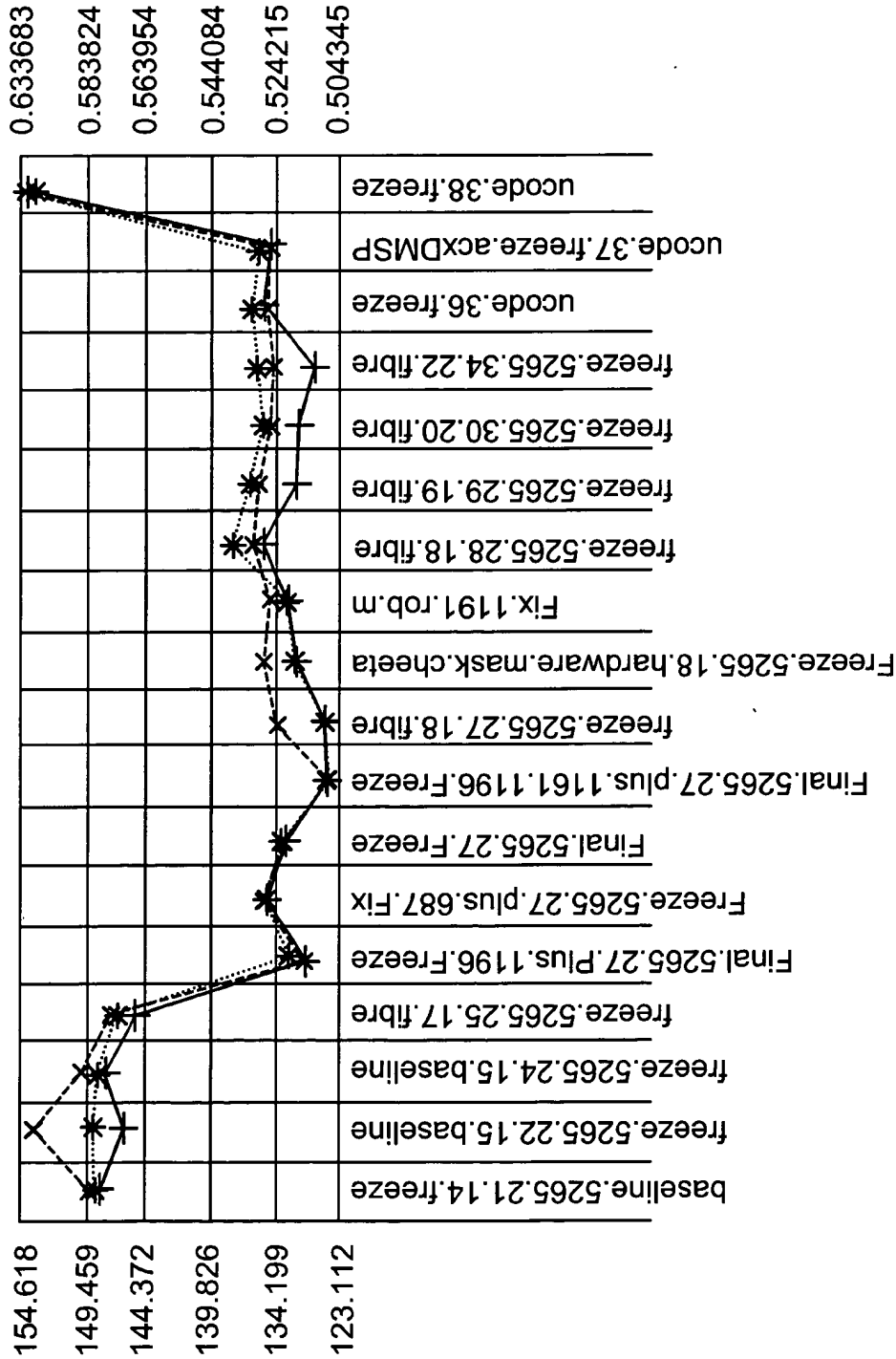
FIG. 8A-2



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

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IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 4896



1BA-1Proc-1Port+2DA-2Proc-2Port-2Drives-1LUN+1Hyper

FIG. 8A-3

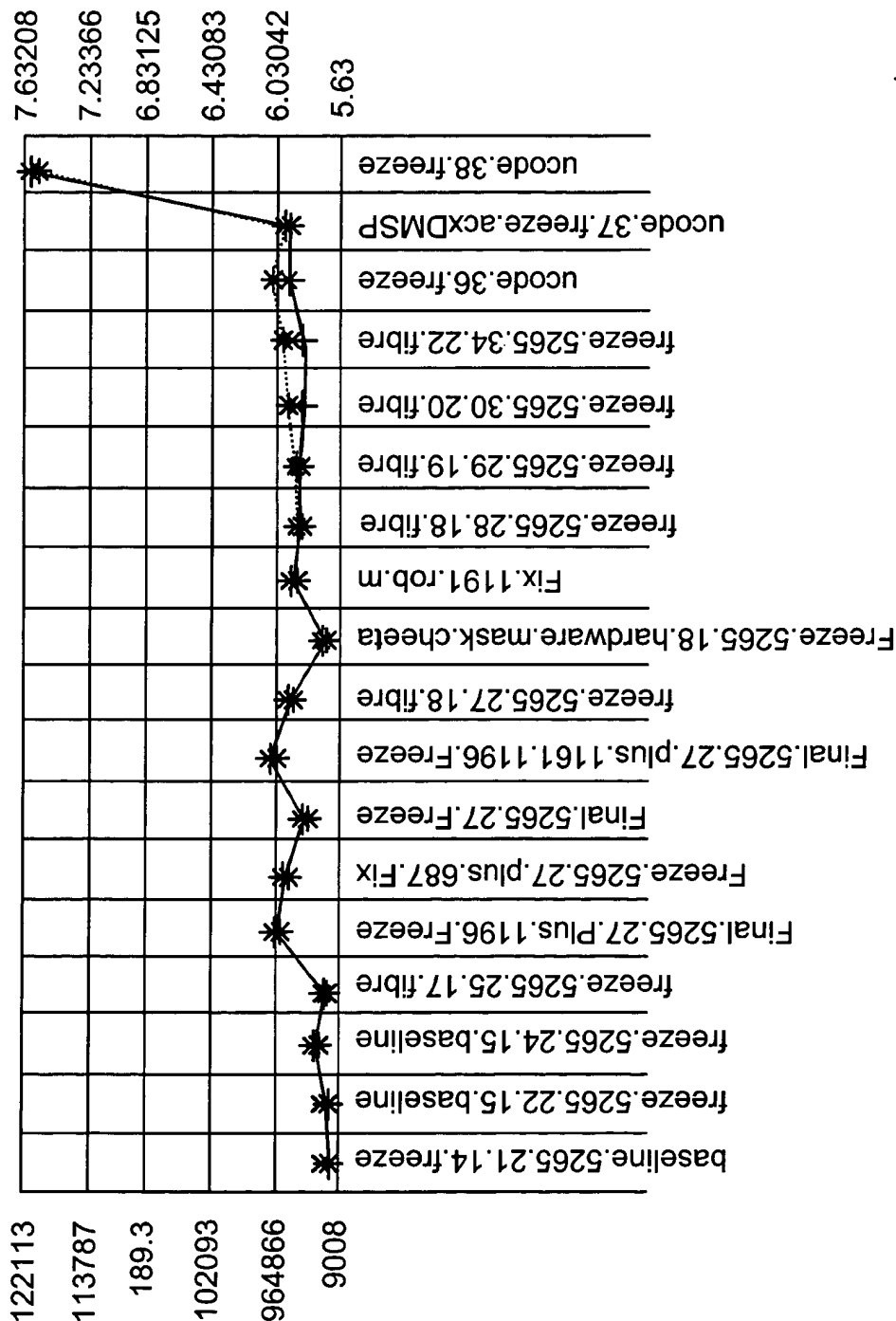
+ 10sps Min
 - 10sps Max
 * MBps Median



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APPROVED	O.G. FIG.
BY	CLASS SUBCL. SS
DRAFTSMAN	

IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 65536



+ 10sps Min
- 10sps Max
* MBps Median

1BA-1Proc-1Port+2DA-2Proc-2Port-2Drives-1LUN+1Hyper

FIG. 8A-4

IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 512

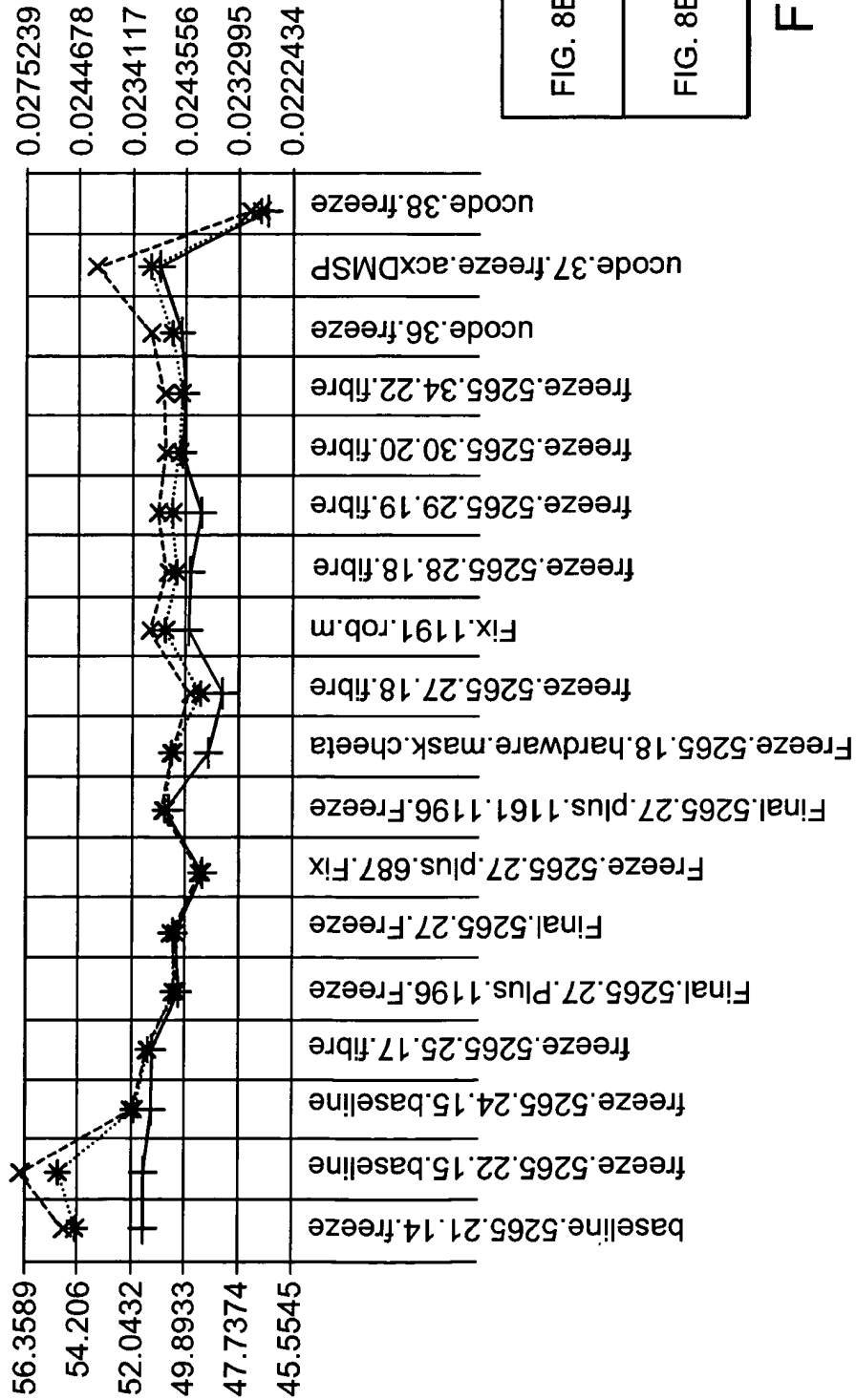


FIG. 8B-1	FIG. 8B-2
FIG. 8B-3	FIG. 8B-4

FIG. 8B

+ 10sps Min
-x- 10sps Max
* MBps Median

BA-4BAProc-4BAPort+4DA-2DAProc-2DAPort-2Drives-2Lun+4Hyper-4

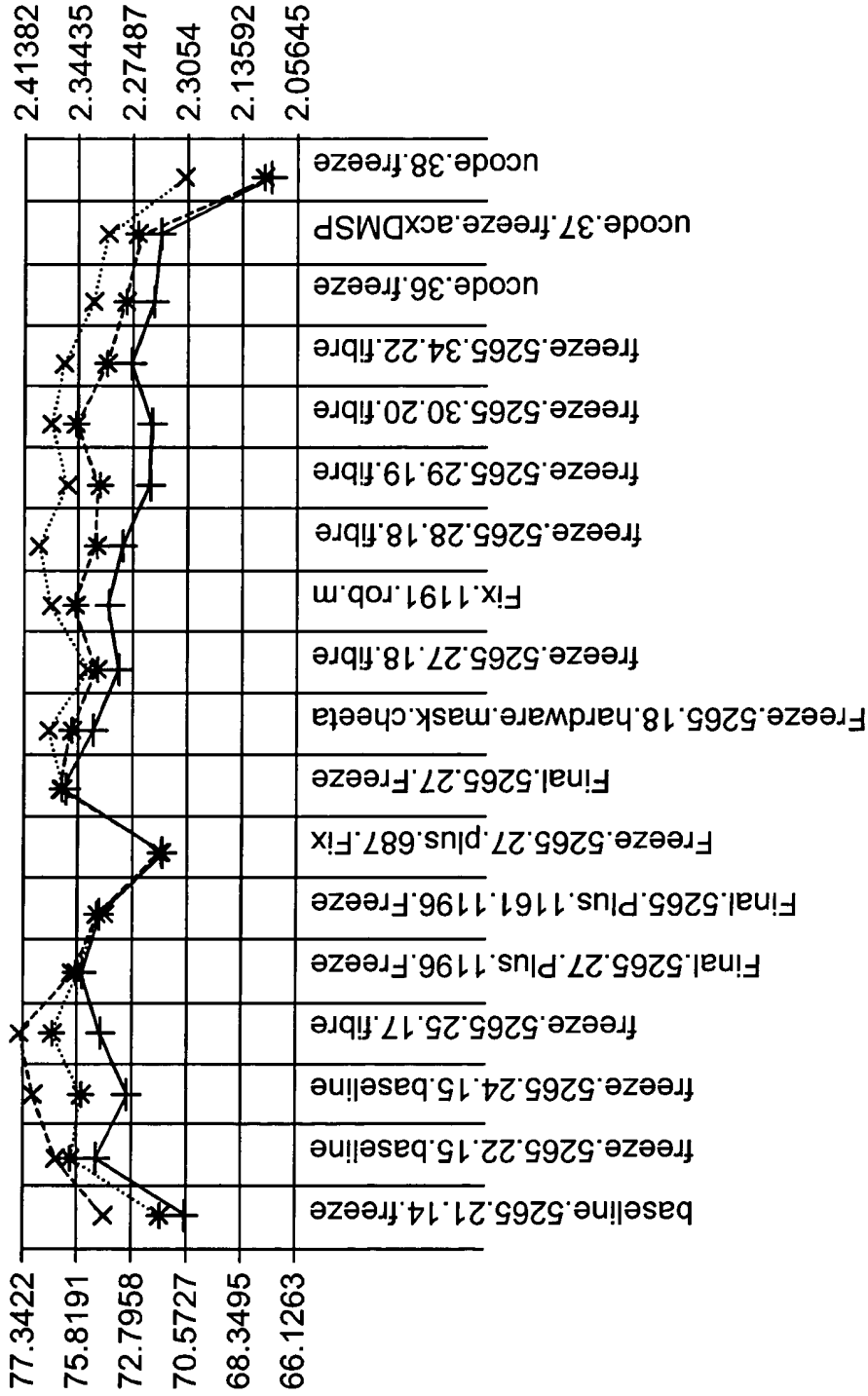
FIG. 8B-1



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

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IOps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 32768



+ 10sps Min
 * 10sps Max
 * MBps Median

BA-4BAProc-4BAPort+4DA-2DAProc-2DAPort-2Drives-2Lun+4Hyper-4

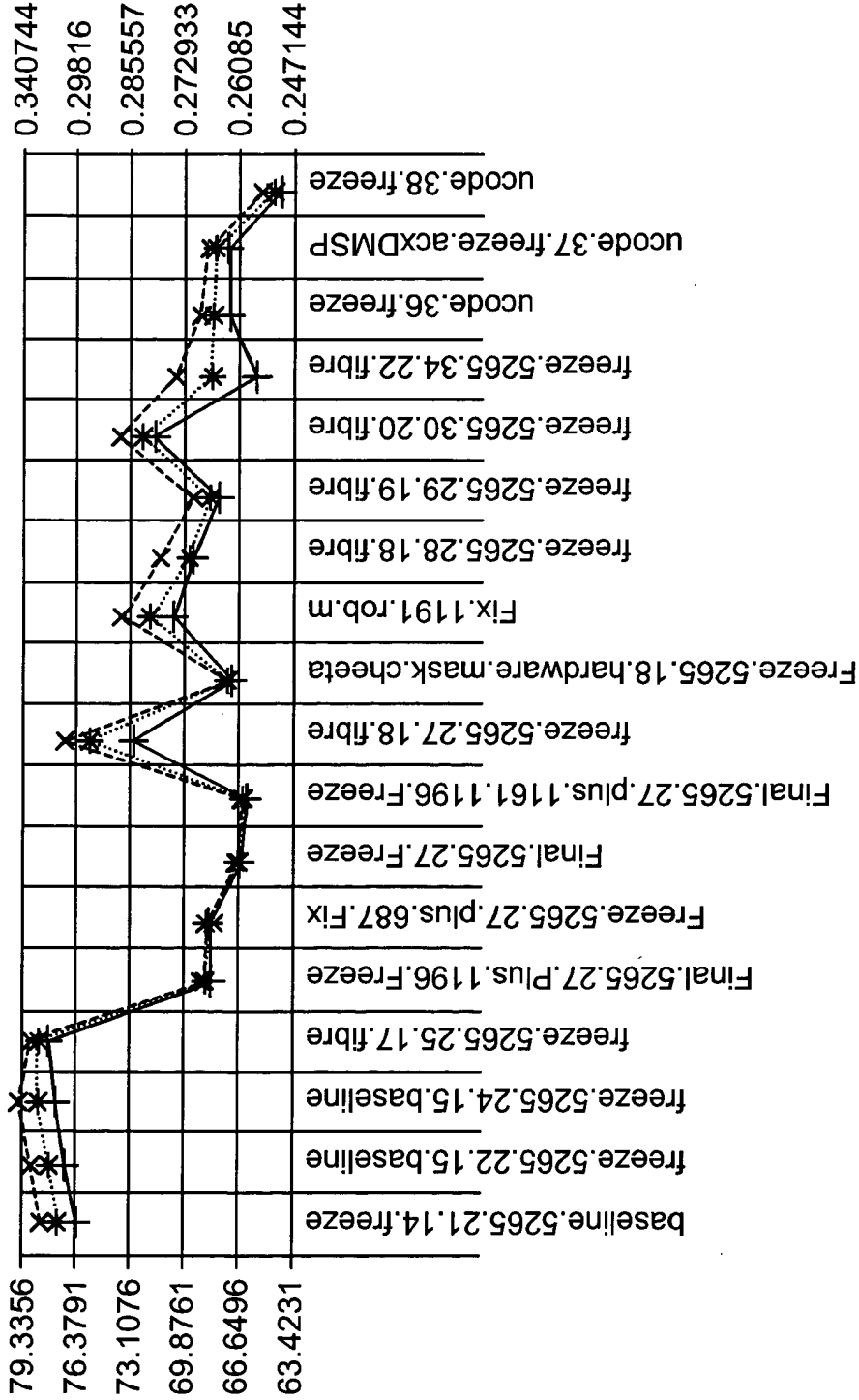
FIG. 8B-2



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

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IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 4096



BA-4BAProc-4BAPort+4DA-2DAProc-2DAPort-2Drives-2Lun+4Hyper-4

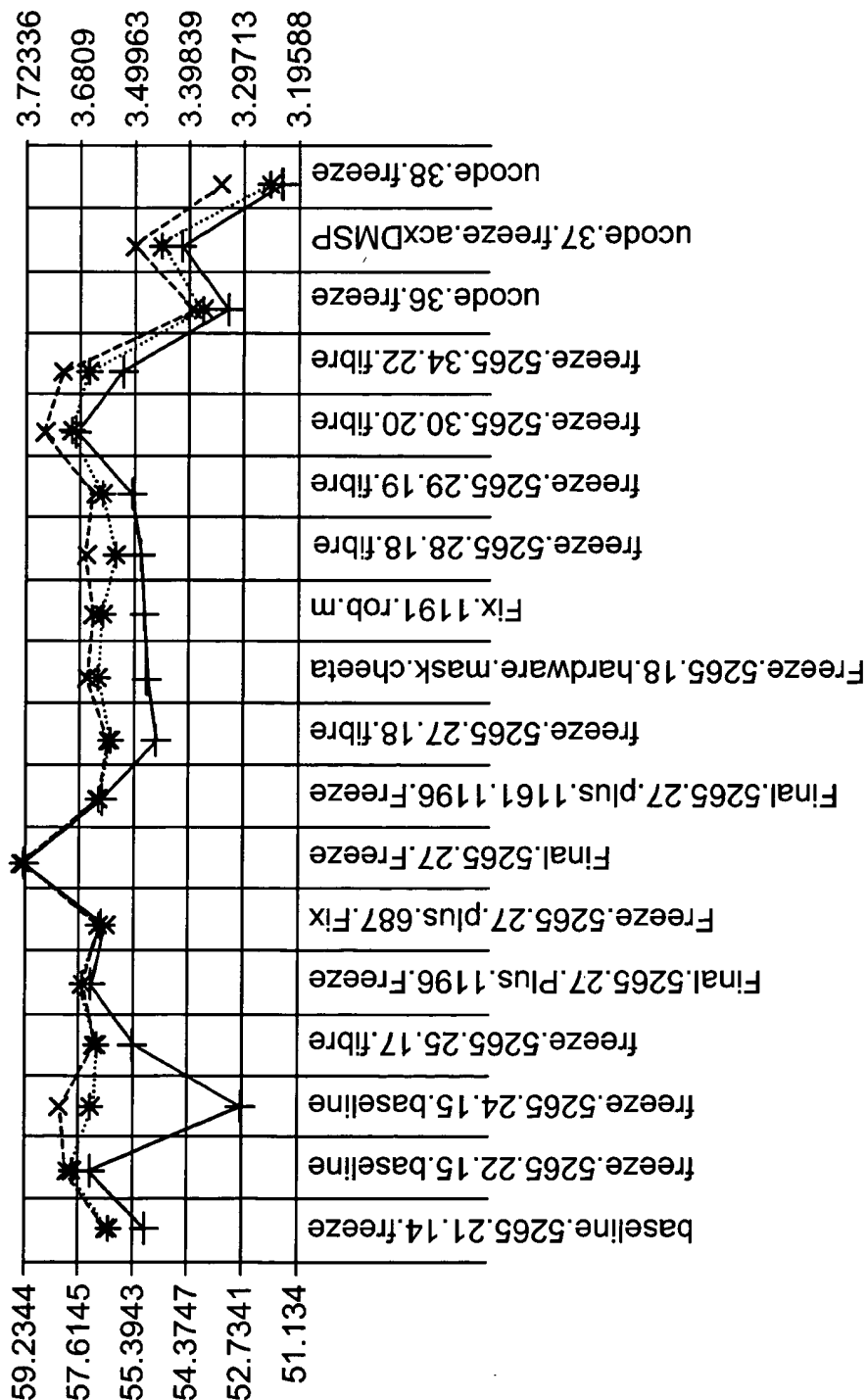
+ 10sps Min
 * 10sps Max
 * MBps Median

FIG. 8B-3



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 65536



+ 10sps Min
 * 10sps Max
 * MBps Median

BA-4BAProc-4BAPort+4DA-2DAProc-2DAPort-2Drives-2Lun+4Hyper-4

FIG. 8B-4

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TECHNOLOGY

APPROVED	O.G. FIG.
BY	CLASS. SUBCL. 55
DRAFTSMAN	

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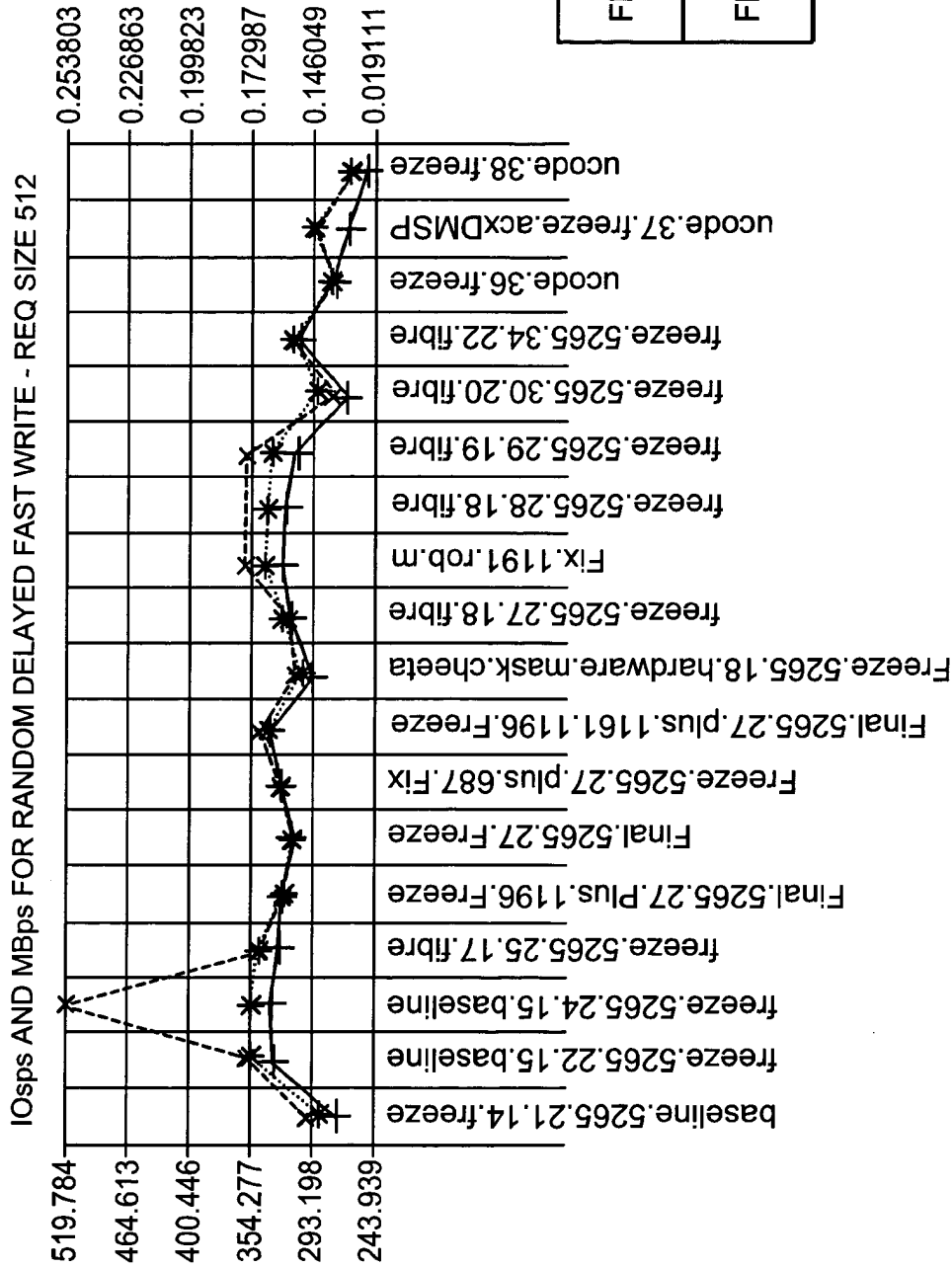


FIG. 8C-1	FIG. 8C-2
FIG. 8C-3	FIG. 8C-4

FIG. 8C

+ 10sps Min
 - 10sps Max
 * MBps Median

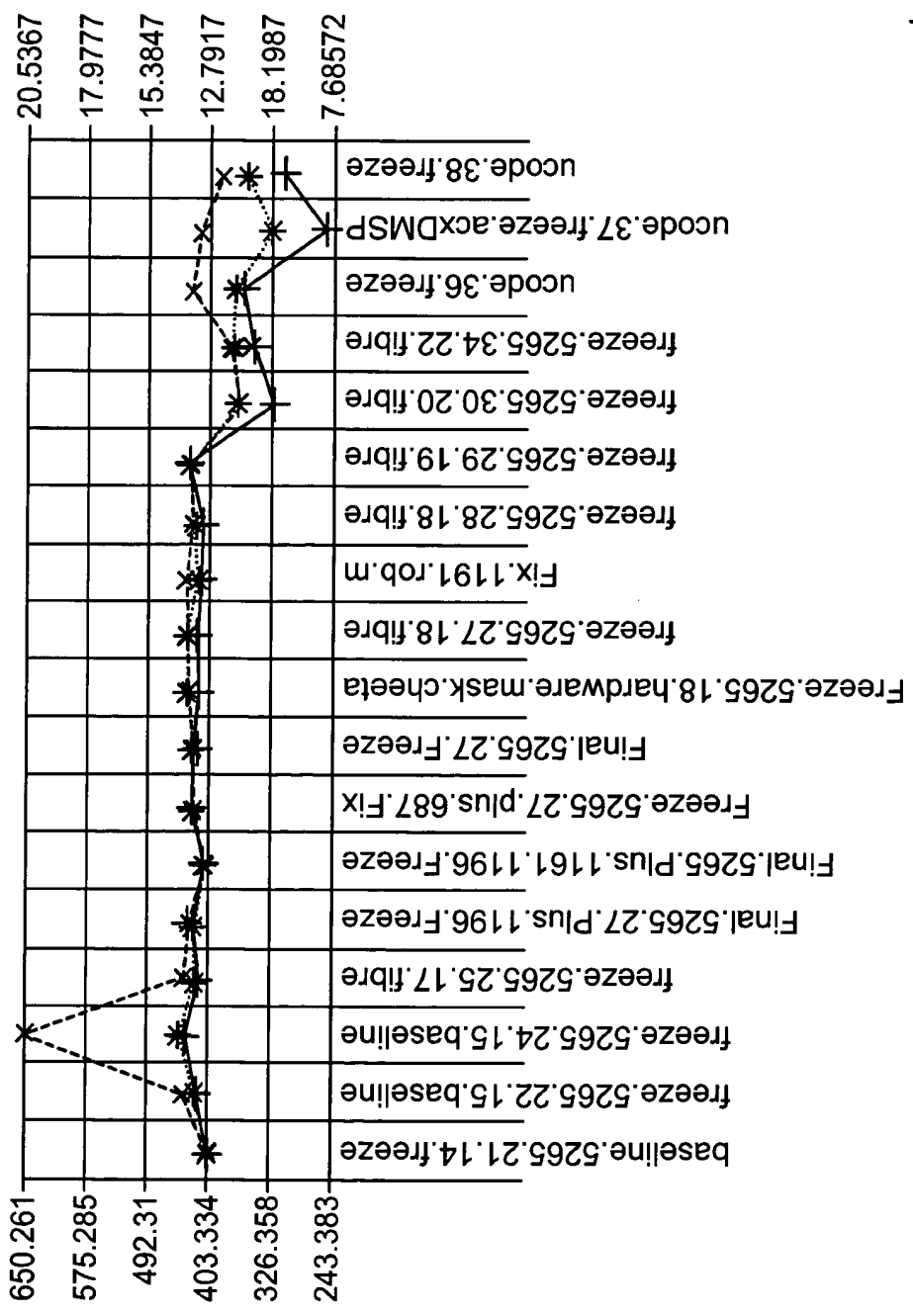
BA-4BAProc-8BAPort-8DA-2DAProc-2DAPort-2Drives-24Lun+4Hyper-4

FIG. 8C-1

APPROVED	O. G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	



IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 32768



+ 10sps Min
 - * 10sps Max
 * MBps Median

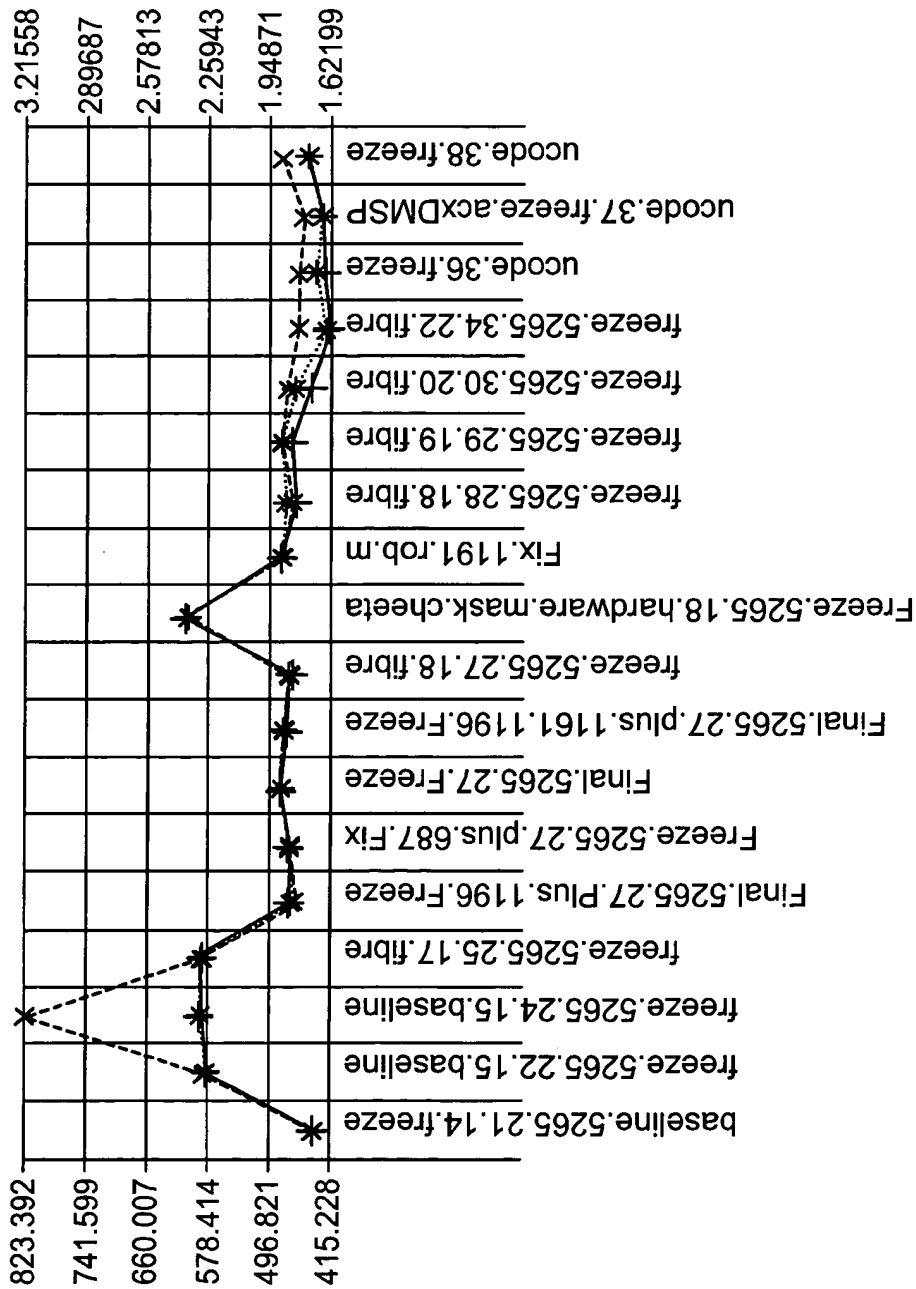
BA-4BAProc-8BAPort-8DA-2DAProc-2DAPort-2Drives-24Lun+4Hyper-4

FIG. 8C-2



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

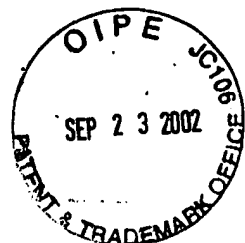
IOps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 4896



BA-4BAProc-8BAPort-8DA-2DAProc-2DAPort-2Drives-24Lun+4Hyper-4

FIG. 8C-3

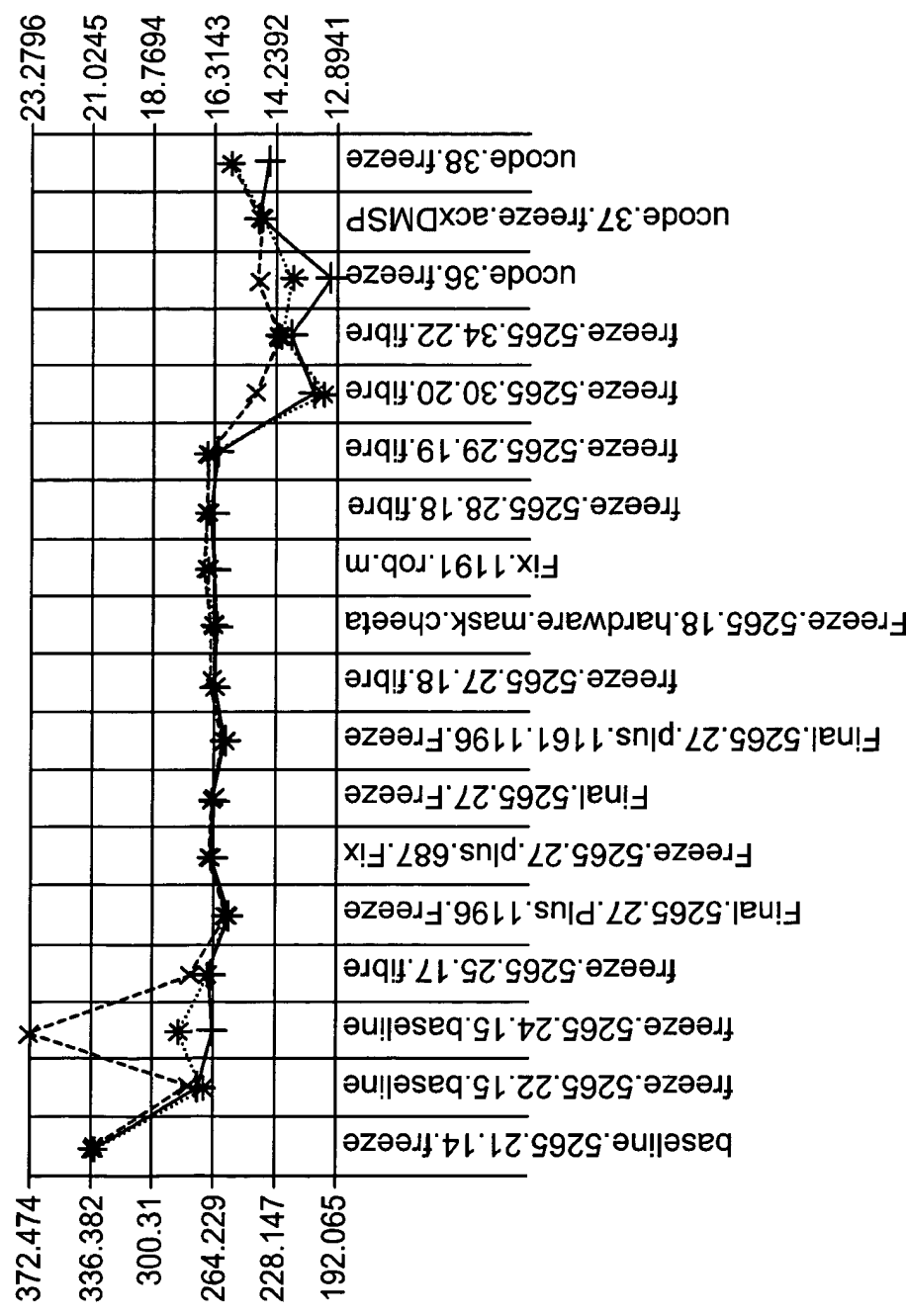
+ 10sps Min
- 10sps Max
* MBps Median



APPROVED	O.G. FIG.
BY	CLASS SUBCL.
DRAFTSMAN	

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IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 65536



+ 10sps Min
x 10sps Max
* MBps Median

BA-4BAProc-8BAPort-8DA-2DAProc-2DAPort-2Drives-24Lun+4Hyper-4

FIG. 8C-4

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

IOps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 512

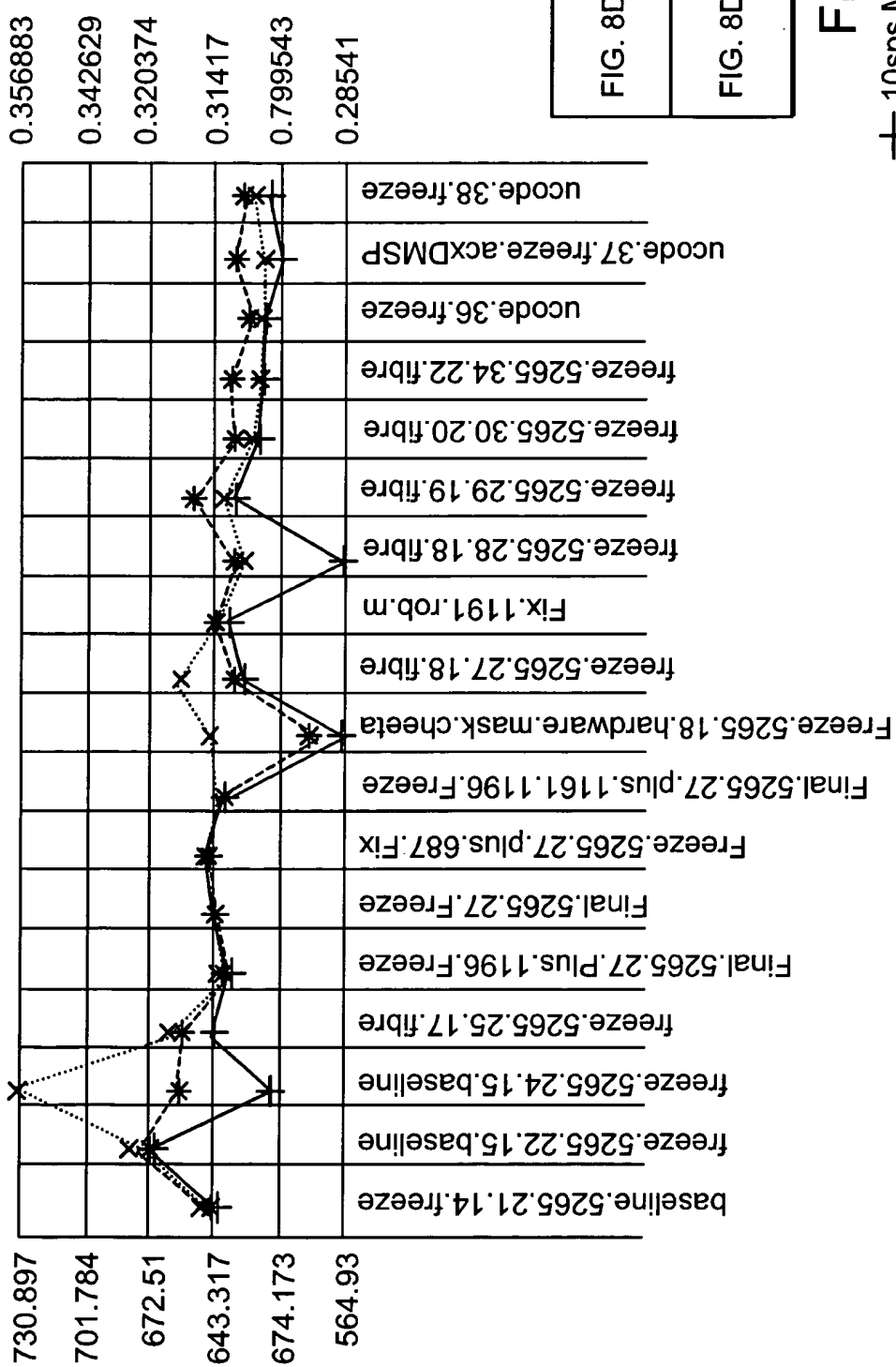


FIG. 8D-1	FIG. 8D-2
FIG. 8D-3	FIG. 8D-4

FIG. 8D

+ 10sps Min
 x 10sps Max
 * MBps Median

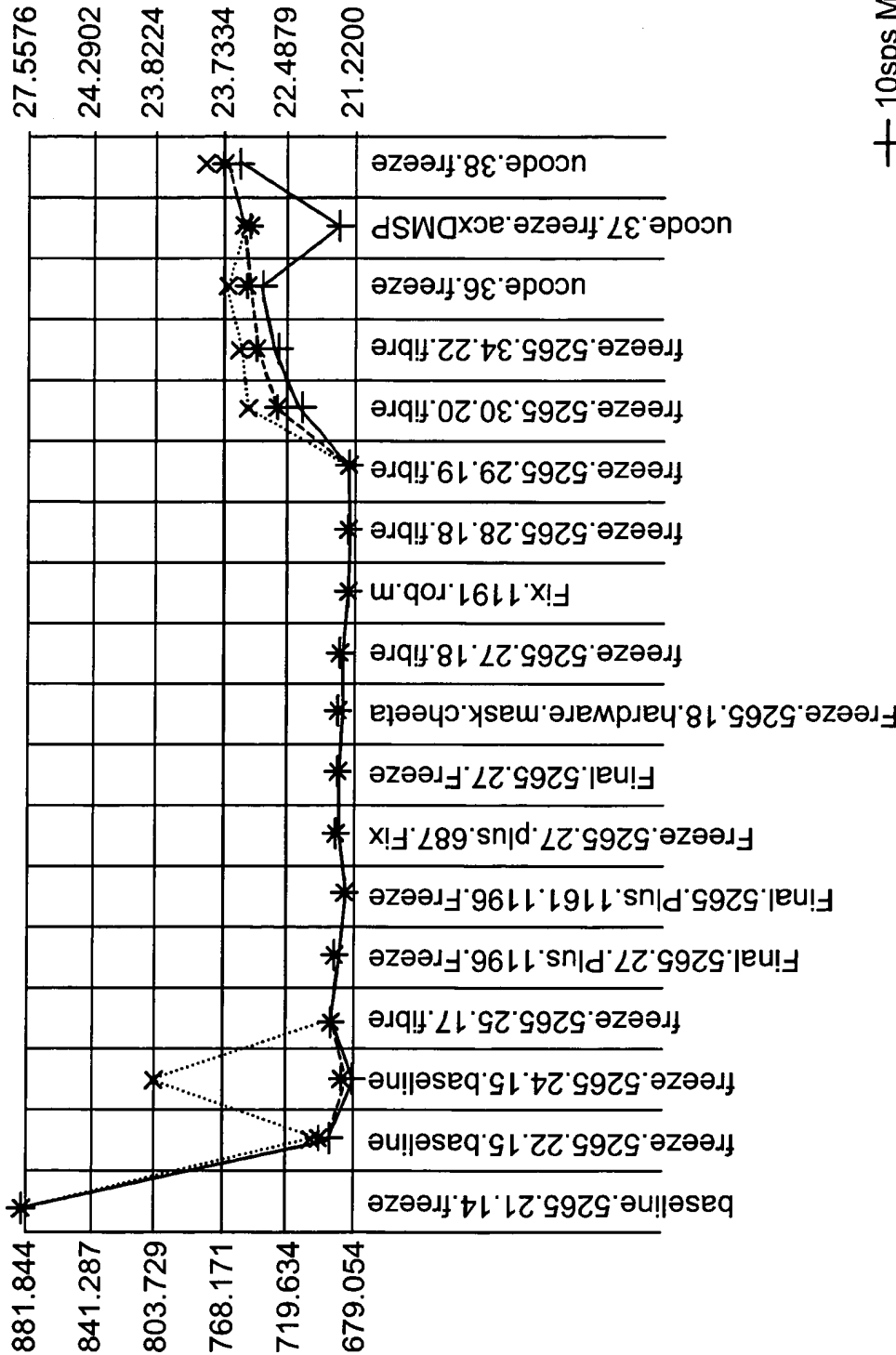
BA-4BAProc-8BAPort+2DA-2DAProc-2DAPort-4Drives-24Lun+4Hyper-4

FIG. 8D-1

APPROVED	O.G. FIG.
BY	CLASS SUBCLAS
DRAFTSMAN	

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IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 32768

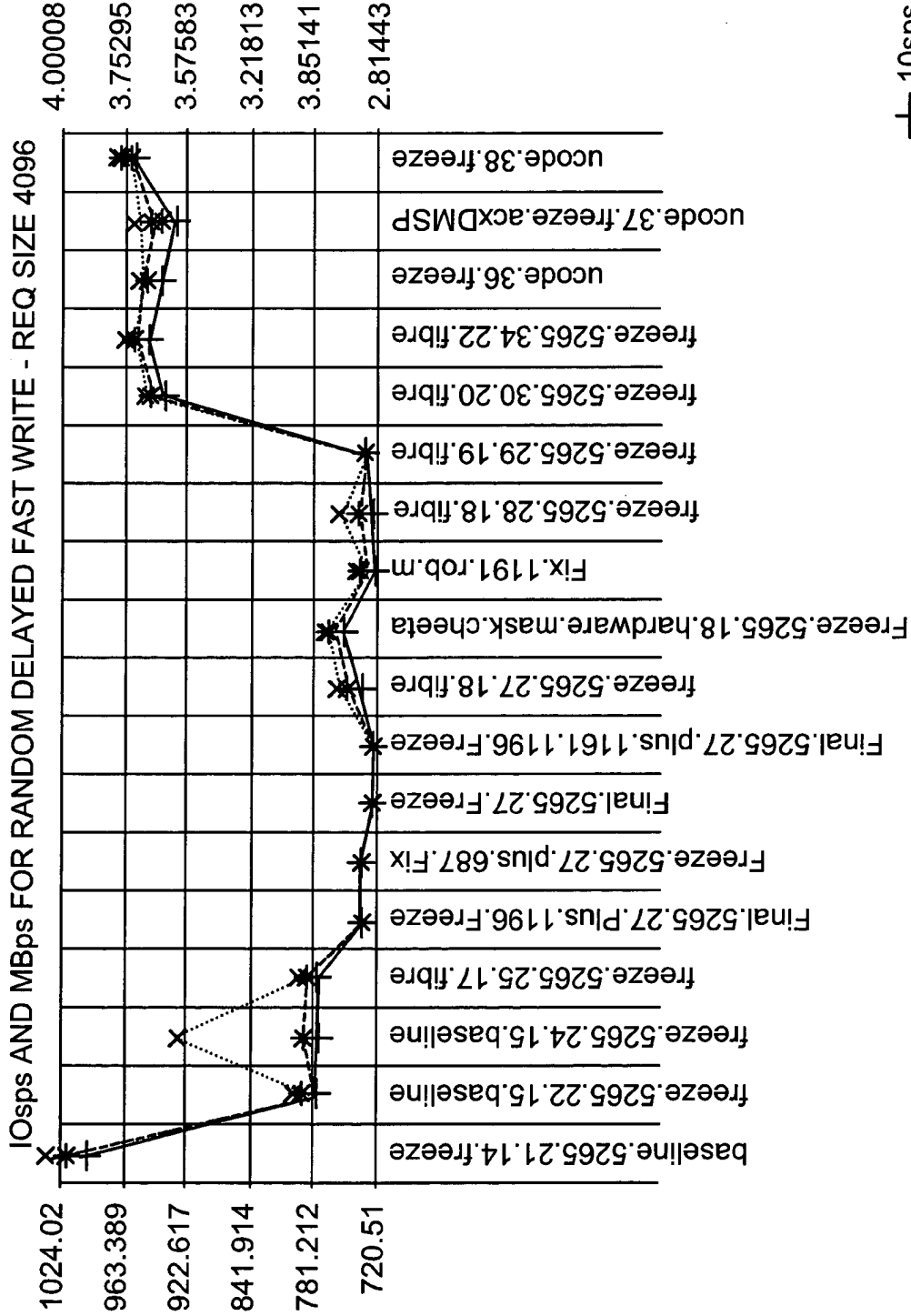


+ 10sps Min
 * 10sps Max
 x MBps Median

BA-4BAProc-8BAPort+2DA-2DAProc-2DAPort-4Drives-24Lun+4Hyper-4

FIG. 8D-2

APPROVED	O.G. FIG.
BY	CLASS SUBCL
DRAFTSMAN	



+ 10sps Min
 x 10sps Max
 * MBps Median

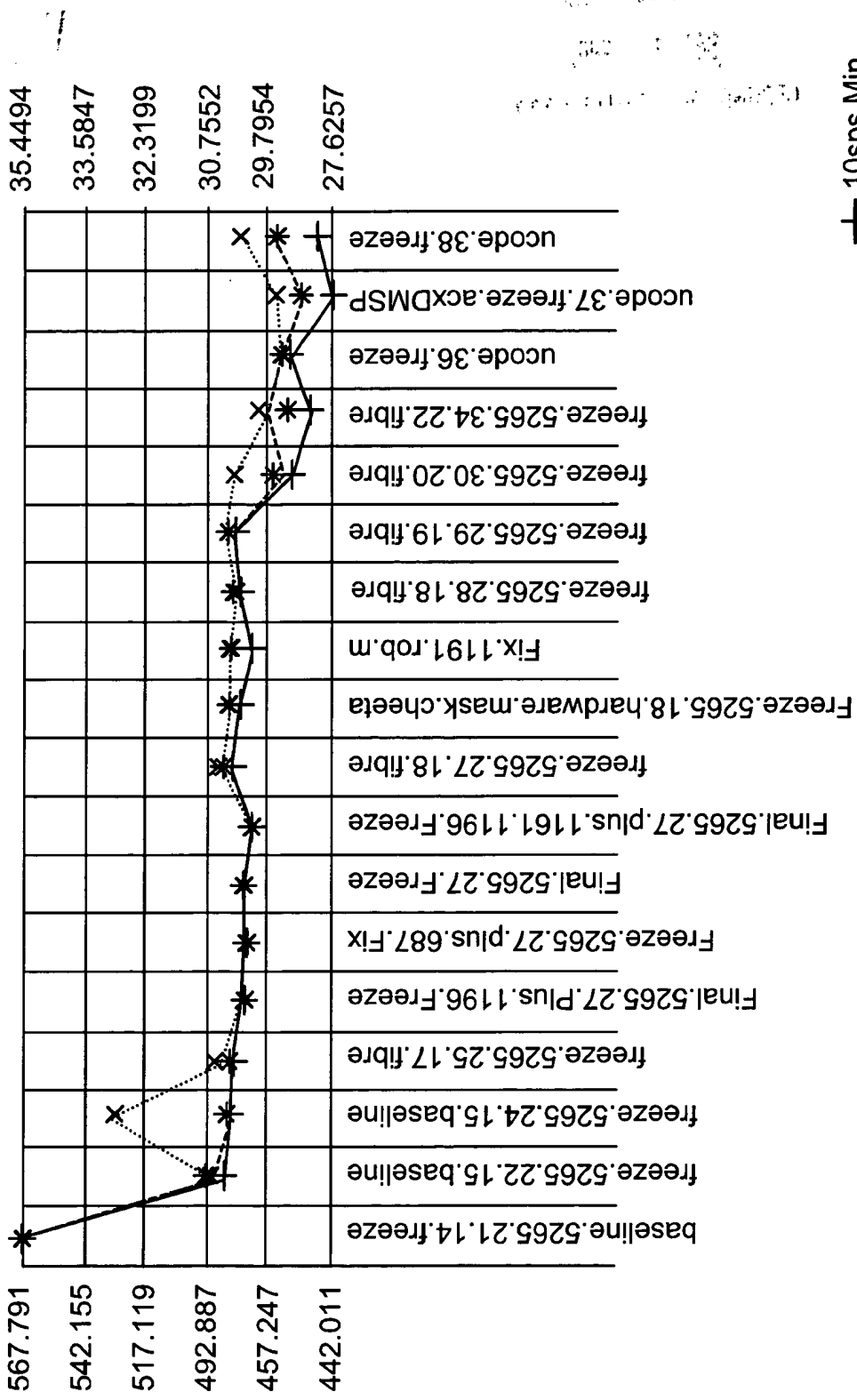
BA-4BAProc-8BAPort+2DA-2DAProc-2DAPort-4Drives-24Lun+4Hyper-4

FIG. 8D-3



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

IOsps AND MBps FOR RANDOM DELAYED FAST WRITE - REQ SIZE 65536



+ 10sps Min
- * - 10sps Max
... * ... MBps Median

BA-4BAProc-8BAPort+2DA-2DAProc-2DAPort-4Drives-24Lun+4Hyper-4

FIG. 8D-4

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APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

SYMMETRIX CONFIGURATION VIEW

Emc MarkNT Performance Characterization W

File Actions View Help

Symmetrix Configuration

☒ Physical Device ☐ Symmetrix Device

CPQ01

CPQ02

000183500055

000183500055

Hostname

CPQ01

Add

Remove

Refresh

Symmetrix Configuration

☒ Physical Device ☐ Symmetrix Device

CPQ02

000183500055

FA-1A

DA-2A

DA-3A

FA-5A

FA-12A

DA-14A

DA-15A

SA-16A

FA-1B

DA-2B

DA-3B

FA-5B

FA-12B

Hostname

CPQ01

Add

Remove

Refresh

Symmetrix Configuration

☒ Physical Device ☐ Symmetrix Device

DA-2B

DA-3B

FA-5B

FA-12B

DA-14B

DA-15B

SA-16B

PHYSICALDR

PHYSICALDR

PHYSICALDR

PHYSICALDR

PHYSICALDR

PHYSICALDR

Hostname

CPQ01

Add

Remove

Refresh

FIG. 9A



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
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0125 9271 40 13 10M1031

DEVICE DETAIL

Device Details

Symmetrix

Vendor Id: EMC

Product Id: SYMMETRIX

Symmetrix Id: 000183500055

Director: SA-16B

Port Number: 1

TID: 0

LUN: 0

Hyper Count: 2

Device Detail

Symmetrix Device: 000

Physical Device: \\.\PHYSICALDRIVE0

Logical Device:

Serial Number: 55000321

Device Status: Ready

Block Size: 512

Capacity: 7741440

Cylinders: 8064

Emulation: FBA

Mirror Policy: two-way mirror

Flags

☐ CKD

☒ META Head

☐ SSOC

☐ META Member

☐ VCM

☐ Gatekeeper

☐ Mixed

☐ PowerPath Parent

☐ PowerPath Child

☐ PowerPath Sibling

☐ No channel

☐ RDF

☐ BCS

☐ BCV

☒ META

OK



APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	

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TECHNICAL - CIVIL ENGINEERING

SYMMETRIX DETAILS

☒ Symmetrix

Director Details

Director: FA-1A

Director Type: Fibre Adapter

Director Num: 1

Slot Num: 1

SCIS Width: N/A

Num Ports: 1

Port 0 status: On

Port 1 status: N/A

Port 2 status: N/A

Port 3 status: N/A

OK

FIG. 9C



APPROVED	O.G. FIG.
BY	CLASS. SUBCLASS.
DRAFTSMAN	

Emc MarkNT Performance Characterization Workbench

File Actions View Help

Symmetrix Configuration

☒ Physical Device ☐ Symmetrix Device

cpq01

..... 000183500055

Hostname: cpq01

Add

Remove

Refresh

Definition Environment Workload Configuration Benchmark Results Other

Definition

Project

Project Name: Bison.Roland

Test Phase: Full.Box.110199.Test

Test Description:

Storage Array

Storage Array: Symmetrix

Model: 3830

Serial #: 000183500055

Details

☒ Symmetrix 4.6

Code: 5265

Code Date: 06231999

Raid Type: Auto

Mirror Policy: Auto

Physical Disks: 96

Hyper Policy: Auto

Cache Size: 8GB

Disk Type: Auto

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FIG. 9D



30/45 REVERSED

ENVIRONMENT TAB

Emc MarkNT Performance Characterization Workbench
File Actions View Help

Symmetrix Configuration

☒ Physical Device ☐ Symmetrix Device

cpq01
+ 000183500055

Hostname
cpq01

Add Remove Refresh

Definition Environment Workload Configuration Benchmark Results

Environment
Master Host Directories
Tools Directory: /bench/EMCtools
Work Directory: /bench/work
Gateway:

Flags
DMSF
☒ Auto
☐ On
☐ Off
☐ Ignore
Flush Cache
☒ IMPL Reset (\$FDCE)

Trace
☒ Ignore
☐ Stop
☐ Clear
☐ CKD

Defaults
Maximum Block Size 128 k
Block Sizes
☒ 512
☐ 1024
☐ 2048
☐ 4096
☐ 8192
☐ 16384

FIG. 9E



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
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Emc MarkNT Performance Characterization Workbench

File Actions View Help

Symmetrix Configuration

☒ Physical Device ☐ Symmetrix Device

cpq01

000183500055

Hostname
cpq01

Add

Remove

Refresh

Definition Environment Workload Configuration Benchmark Results

Workload Specification

Workload Execution List

50-50
DSS1
DSS2
OLTP1
OLTP2
OLTP3
OLTP4
PROGRESS
random_0read
random_100read
random_read_100hit
RRH
RRM

sequential
sequential
SR
TERADAT.
Testoltp1

<< Add

Remove >>

☒ ALL ☐ User ☐ Std

Start

View

New

Edit

Copy

Delete

FIG. 9F



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
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TECHNICAL

Workload Execution

Workloads

OLTP1

Iterations:

1

Configuration Rule

1BA-1Port/Proc

☐ Dry

☐ Run

OK

Cancel

FIG. 9G

APPROVED BY
O.G. FIG.
CLASS/SUBCLASS
DRAFTSMAN

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12/12/2003

3 10 432

102501430 100000000

FIG. 9H

RESPONSE TIME WORKLOAD

☒ Edit Workload

Workload Description: **Testoltp1**

☐ Response Time
☐ Throughput

Delay: Cache Slots: Max I/O Second: Bucket Size: Max Sequential Count:

Max Test Period: Min Test Period: Segment 1: Segment 2: Min Sequential Count:

Multiplier: LSeeks: Start Byte: Disk Extent:

Workload Transaction Definition

Size	%Workload	%Hits	%Random	%Read	Align	Align Back
OMB 4KB 0B	50	0	100	100	OMB 5KB 0B	OMB 0KB
OMB 4KB 0B	30	0	100	0	OMB 3KB 0B	OMB 0KB
OMB 4KB 0B	10	0	0	100	OMB 5KB 0B	OMB 0KB
OMB 4KB 0B	10	0	0	0	OMB 3KB 0B	OMB 0KB

Request Size: MBytes KBytes Bytes

Alignment: MBytes KBytes Bytes

Back Alignment: MBytes KBytes Bytes

% of Workload:

% Cache Miss/Hit:

% Sequential/Random:

% Write/Read:

34/45

10/10/99

10/10/99

10/10/99

FIG. 9I

THROUGHPUT WORKLOAD

☒ View Workload

Workload Description
 random_100read

☐ Response Time
☒ Throughput

Delay: 1.0
 Duration Time: 30
 Multiplier: 4

Cache Slots: 0
 Unfrict: 0
 LSeeks: 0

SPlus Type: 20000
 RT Multiplier: 4
 Start Byte: 0

RT Size: 20000
 I/O Loops: 0
 Random Range: 0

☒ Collect Response Times
☐ Report Individual Response Times

Workload Transaction Definition

Size	% Workload	% Hits	% Random	% Read	Align	Align Back
0 MB 0KB 0B	100	0	100	100	0 MB 0KB 0B	0 MB 0KB

Request Size: 0 MB 0KB 0B
 Alignment: 0 MB 0KB 0B
 Back Alignment: 0 MB 0KB 0B

% of Workload: 100
 % Cache Miss/Hit: 0
 % Sequential/Random: 0
 % Write/Read: 0



APPROVED	O.G. FIG.
BY	CLASS/SUBCL
DRAFTSMAN	

Emc MarkNT Performance Characterization Workbench

File Actions View Help

Symmetrix Configuration

☒ Physical Device

☐ Symmetrix Device

cpq01

+ 000183500055

Hostname

cpq01

Add Remove Refresh

Definition Environment Workload Configuration Benchmark Results Other

Configuration Rule Definition

All Configuration Rules

Rule	P/E Expression	B/E Expression
1/2Hyper		[01]
1DA_Port		M
1Hyper		0:M
10dd1Evert_BA	(01:a:0[01:b:0)	M
2Drives-3/4Hyper		[01]:(
2Drives-3Hyper		[01]:(
2Drives-Not1Hyper		[02]:(
3/4Hyper		[012]
3Drives		[012]
3Drives-1/2Hyper		[012]
3Drives-2Hyper		[012]
3Drives-3/4Hyper		[012]

View

New

Edit

Copy

Delete

☒ ALL

☐ User

☐ Std

FIG. 9J



APPROVED	O.G. FIG.
BY	CLASS/SUBCL
DRAFTSMAN	

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Configuration Definition

Rule Name

OK

Cancel

Rule Definition

F/E Expression

~Expression not yet Defined

F/E Expression

B/E Expression

Front-End

☒ FA-01:a:0

☒ SA-16:a:0

☒ FA-05:a:0

☒ SA-16:a:1

☒ FA-12:a:0

☒ FA-01:a:0

All

None

☒ DA-02:a:C

☒ DA-03:a:C

☒ DA-14:a:C

All

None

Expressions

Build

Update

Max I/O Second

Auto

Back-End

☒ DA-02:a:C

☒ DA-03:a:C

☒ DA-14:a:C

All

None

TIDS

☒ 0

☒ 1

All

None

Mirrors

☒ M1

☐ M2

All

None

LUNS

☒ 0

☒ 1

☒ 2

☒ 3

All

None

FIG. 9K



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Emc MarkNT Performance Characterization Workbench

File Actions View Help

Symmetrix Configuration

☒ Physical Device

☐ Symmetrix Device

cpq01

..... 000183500055

Hostname

cpq01

Add Remove Refresh

Definition Environment Workload Configuration Benchmark Results

Benchmark Definition

Benchmark Execution List

Profiling Regression

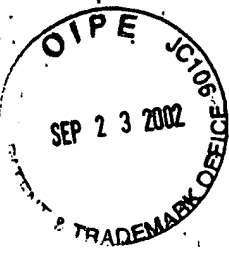
View New Edit Copy Delete

Remove >>

<< Add

Start

FIG. 9L



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

Benchmark Execution

Benchmark

Regression

Iterations: 3 ▾ ☐ Dry Run

FIG. 9M



FIG. 9N

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

View Benchmark

Benchmark Name

Regression

OK

Cancel

Benchmark Workload Definition

Workload	Configuration Rule	Delay Milliseconds	Cache Slots	Max IOPs
RRM	1Hyper	-1	-1	
RRM	Everything	-1	-1	
OLTP1	Everything	-1	-1	
OLTP2	3Hypers/4Drives	-1	-1	
OLTP3	1Hyper/2Drives	-1	-1	
DSS1	1Hyper	-1	-1	
DSS2	Everything	-1	-1	
TERADATA	2Drives/DA-3Hyper/4Drives	-1	-1	

Delay

0

Cache Slots

0

Max I/O Second

0

Bucket Size

0

Max Sequential Count

50

Min Test Period

0

Segment 1

0

Segment 2

0

Min Sequential Count

50

Multiplier

0

LSeeks

0

Disk Extent

0

Workload

RRM

Configuration Rule

1 Hyper

Insert

Remove



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

Emc MarkNT Performance Characterization Workbench

File Actions View Help

Symmetrix Configuration

☒ Physical Device ☐ Symmetrix Device

cpq01

..... 000183500055

Definition Environment Workload Configuration Benchmark Results

Results Display

Reports

☒ Runtime ☐ Nohup ☐ Exceptions ☐ DB Summary

View

FIG. 90



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APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

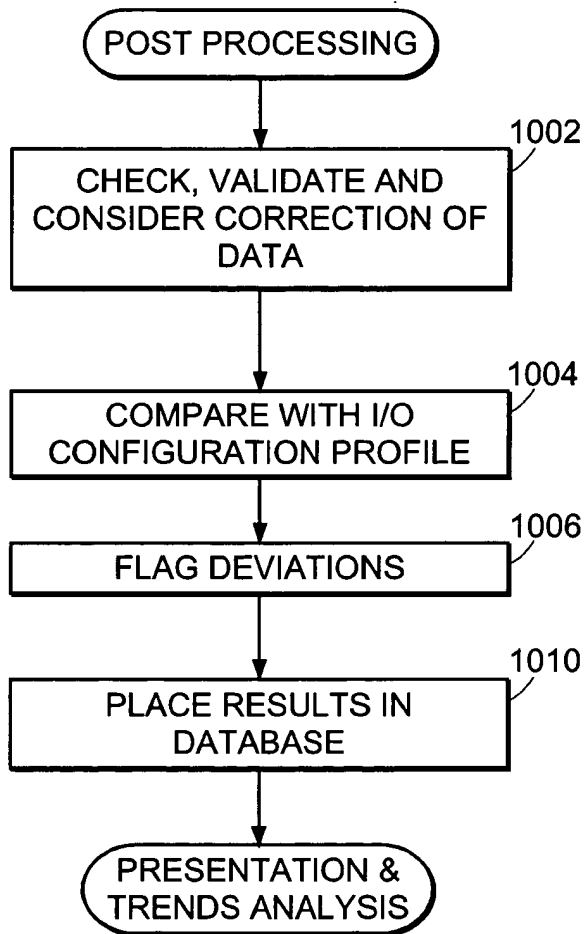


FIG. 10

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	



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101 20 032

4038 881 000 1 11 1388031

Table Variables

Row

config

Column

req size

Configuration

test type

Test Description

none

Summary Functions

IO Function

max

MB Function

max

OK

Cancel

FIG. 10A

Advanced Database Simulator Summary

Table Variables

Row

test type

Configuration

config

Column

interval

Summary Functions

IO Function

max

MB Function

min

OK

Cancel

FIG. 10B

FIG. 11A

FIG. 11B

FIG. 11



APPROVED	O.G. FIG.
BY	CLASS/SUBCL.
DRAFTSMAN	

FILE DESCRIPTIONS

FILE NAME	DESCRIPTION	HIGHLIGHTS
Char.Summary	SUMMARY FILE OF EACH CHARACTERIZATION TEST BROKEN DOWN BY ITERATION, TEST TYPE, AND CONFIGURATION	
Char.Splus	DATA FILE FEED TO Splus TO CREATE CHARACTERIZATION OBJECTS	
Char.Errors	CHARACTERIZATION ERRORS PRODUCED FROM PROCESSING THE RAW DATA FILES.	MESSAGE APPEARS IF ERROR FILE EXISTS
SX.Summary	SX SUMMARY DATA BROKEN DOWN BY ITERATION, TEST TYPE AND CONFIGURATION	
SX.Splus	DATA FILE FEED TO Splus: USED WITH Char.Summary FILE TO CREATE CHARACTERIZATION OBJECTS	
SX.Errors	SX ERRORS FROM PROCESSING THE RAW DATA FILES	MESSAGE APPEARS IF ERROR FILE EXISTS

FIG. 11A



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APPROVED	O.G. FIG.
BY	CLASS/SUBCL
DRAFTSMAN	

DB.Table	SUMMARY FILE OF EACH DB SIMULATOR TEST BROKEN DOWN BY ITERATION, TEST TYPE AND CONFIGURATION		
DB.Splus	DATA FILE FEED TO Splus TO CREATE DBSimulator OBJECTS		
DB.Errors	DB SIMULATOR ERRORS PRODUCED FROM PROCESSING THE RAW DATA FILES	MESSAGE APPEARS IF ERROR FILE EXISTS	
SX_DB.Summary	SX DB SUMMARY DATA BROKEN DOWN BY ITERATION, TEST TYPE AND CONFIGURATION		
SX_DB.Splus	DATA FILE FEED TO Splus. USED WITH DB.Splus FILE TO CREATE DBSimulator OBJECTS		
SX_DB.Errors	SX_DB ERRORS PRODUCED FROM PROCESSING THE RAW DATA FILES	MESSAGE APPEARS IF ERROR FILE EXISTS	
Cache Ratio Report	REPORT TRACKING THE CACHE RATIO FROM THE SYM AND THE PROCESSED DATA	REPORT NAME: "CacheRatioReport.txt" LOCATED IN THE RAW DATA FOLDER MESSAGE APPEARS IF A REPORT	

FIG. 11B

Emc MarkNT

File Edit Project Log View Help

Project Test Phase Data Transfers Process Raw Data Post-Processing Reporting Database Charts

Database F:\TestArea\Regression.5266.Overnught\Database\symm48.5265

Test Type Random Delayed Fast Write

Characterization

Req size: 512 LUNs: 1

Hypers: 1 Drives: 2

BAs: 1 DAs: 2

BA Procs: 1 DA Procs: 2

BA Ports: 1 DA Ports: 2

Type

Online Chert

By TestType

View All

Scale

Percent Scale

Value Scale

Per Page

2 6 9 15

4 8 12 16

Load DB Defaults

Chart

1202

1206

1200

Select DB

1204

1208

1210

1212

1214

1216

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